AMENDMENTS TO THE CLAIMS

The following is a complete listing of the claims, which replace all previous versions and listings of the claims.

1. (currently amended) A centrifugal blower wheel for a heating, ventilation and air conditioning (HVAC) blower unit, comprising:

a first blade support;

a second blade support offset from said first blade support by a distance along a central axis of rotation; and

a plurality of S-shaped blades disposed extending between and coupled to said first and said second blade supports, wherein each of said S-shaped blades has a trailing edge bent in a forward direction with respect to a defined direction of rotation of the wheel, and the blade supports extend beyond the trailing edge of the S-shaped blade.

- 2. (original) The blower wheel of claim 1, wherein a leading edge of said S-shaped blades is inwardly curved with respect to the center of the wheel.
- 3. (original) The blower wheel of claim 2, wherein said trailing edge is outwardly curved with respect to the center of the wheel.
- 4. (original) The blower wheel of claim 1, wherein said plurality of S-shaped blades comprises about 12 to about 18 individual blades.
- 5. (original) The blower wheel of claim 1, wherein said plurality of S-shaped blades comprises 16 individual blades.

6. (currently amended) An integrated heating, ventilation and air conditioning (HVAC) blower apparatus, comprising:

a centrifugal blower wheel disposed within a housing;

an electronically commutated motor (ECM) in operative communication with said centrifugal blower wheel, said ECM extending at least partially through a first inlet cone disposed in a first side of said housing; and

said centrifugal blower wheel further comprising:

- a first blade support;
- a second blade support; and
- a plurality of S-shaped blades disposed extending between and coupled to said first and said second blade supports, wherein each of said S-shaped blades has a trailing edge bent in a forward direction with respect to a defined direction of rotation of said wheel, and the blade supports extend beyond the trailing edge of the S-shaped blade.
- 7. (original) The HVAC blower apparatus of claim 6, wherein a leading edge of said S-shaped blades is inwardly curved with respect to the center of the wheel.
- 8. (original) The HVAC blower apparatus of claim 7, wherein said trailing edge is outwardly curved with respect to the center of the wheel.
- 9. (original) The HVAC blower apparatus of claim 6, wherein said plurality of S-shaped blades comprises about 12 to about 18 individual blades.
- 10. (original) The HVAC blower apparatus of claim 6, wherein said plurality of S-shaped blades comprises 16 individual blades.
- 11. (currently amended) The HVAC blower apparatus of claim 6, wherein said inlet cone has a minimum diameter at about a midpoint thereof a central axis, an

axial length, and a diameter that generally decreases from opposite ends of the axial length toward an intermediate region along the axial length.

12. (currently amended) A heating, ventilation and air conditioning (HVAC) system for heating/cooling a space, comprising:

a system controller;

at least one of a heating and a cooling source;

an integrated blower apparatus in communication with said system controller; and an airflow path for circulating air through the space;

said integrated blower apparatus further comprising:

a centrifugal blower wheel disposed within a housing, said centrifugal blower wheel further including a first blade support, a second blade support offset from said first blade support by a distance along a central axis of rotation, and a plurality of S-shaped blades disposed extending between and coupled to said first and said second blade supports, wherein each of said S-shaped blades has a trailing edge bent in a forward direction with respect to a defined direction of rotation of said wheel, and the blade supports extend beyond the trailing edge of the S-shaped blade; and

an electronically commutated motor (ECM) in operative communication with said centrifugal blower wheel, said ECM extending at least partially through a first inlet cone disposed in a first side of said housing.

- 13. (original) The HVAC blower system of claim 12, wherein a leading edge of said S-shaped blades is inwardly curved with respect to the center of the wheel.
- 14. (original) The HVAC blower system of claim 13, wherein said trailing edge is outwardly curved with respect to the center of the wheel.
- 15. (original) The HVAC blower system of claim 12, wherein said plurality of S-shaped blades comprises about 12 to about 18 individual blades.

- 16. (original) The HVAC blower system of claim 12, wherein said plurality of S-shaped blades comprises 16 individual blades.
- 17. (currently amended) The HVAC blower system of claim 12, wherein said inlet cone has a minimum diameter at about a midpoint thereof a central axis, an axial length, and a diameter that generally decreases from opposite ends of the axial length toward an intermediate region along the axial length.
- 18. (new) The HVAC blower apparatus of claim 6, wherein the first and second blade supports are offset by a distance along a central axis of rotation.
 - 19. (new) A system, comprising:a heating ventilation and air conditioning (HVAC) blower, comprising:a first blade support;
- a second blade support offset from the first blade support by a distance along a central axis of rotation; and

a plurality of S-shaped blades extending between and coupled to the first and second blade supports, wherein each of the S-shaped blades has a trailing edge bent in a forward direction with respect to a defined direction of rotation, and the trailing edge is generally free from the first and second blade supports.